

Date: Wed, 20 Oct 93 12:35:43 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1247
To: Info-Hams

Info-Hams Digest Wed, 20 Oct 93 Volume 93 : Issue 1247

Today's Topics:

 Avaialbe 920 MHz Transceivers??
 Casual DX'er needs help on direct QSL'ing
 Daily Solar Geophysical Data Broadcast for 19 October
 Delta's policy on personal electronics
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 EL2CX
 EL2CX QSL, 6 yrs ago?
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 IC-W21AT and ICW2A HT's
 JOTA
 Modifications for Yaesu 2700?
 More on Cross-Field Antenna (CFA)
 Transmission Line Losses (2 msgs)
 Where to buy O-Scopes cheaply

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 20 Oct 93 12:42:49 GMT
From: ogicse!emory!kd4nc!ke4zv!gary@network.ucsd.edu
Subject: Avaialbe 920 MHz Transceivers??
To: info-hams@ucsd.edu

In article <7sHNBc2w165w@jackatak.raider.net> martinbw@jackatak.raider.net (Bruce Martin) writes:

>Say Gary,
>

>Do you know of any cell phone Hacks for 902-928 MHz band use. I have a
>couple of Novatel Bag phones I would love to hack on but need much
>further instructions.

Heh, I have a Motorola bag phone I'd like to convert too, but I don't
know any hacks to do either one.

Gary

--

Gary Coffman KE4ZV	"If 10% is good enough	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	for Jesus, it's good	uunet!rsiatl!ke4zv!gary
534 Shannon Way	enough for Uncle Sam."	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Ray Stevens	

Date: 20 Oct 93 01:10:39 GMT
From: munnari.oz.au!spool.mu.edu!nigel.msen.com!yale.edu!newsserver.jvnc.net!
igor.rutgers.edu!remus.rutgers.edu!lau@network.ucsd.edu
Subject: Casual DX'er needs help on direct QSL'ing
To: info-hams@ucsd.edu

Worked 9A2DW over the weekend. This must look stupid to all you real
DX'ers, but I have no idea of where 9A is. And I also forgot to ask
him on the air. The prefix list in the 1992 ARRL Operating Manual does
not list it either. He did mention QSL via YU2DW. The 1987
International Callbook, the only one that I have access to, lists him
as:

Zvonko Ljutic
Skurinjskih Zrtava 28
51000 Rijeka
Yugoslavia

I have the following questions:

1. Where is 9A?
2. Is YU2DW's address still the same as listed in the 1987 callbook?
3. How is direct QSL'ing to Yugoslavia like these days, given the
instability in that area? Should I try?

Also, does anybody have the current address of K20RG? Worked him about
a week ago. He seemed to be on a DXpedition on an island on the Gulf
of Mexico. He mentioned QSL according to address listed in the Summer
Supplement of the 1993 callbook and the info was also listed in many
DX bulletins.

Thanks in advanced and 73.

- Jonathan Lau, AA2NM

Date: 20 Oct 93 13:27:25 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 19 October
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 292, 10/19/93
10.7 FLUX=088.8 90-AVG=095 SSN=064 BKI=2213 2111 BAI=006
BGND-XRAY=A6.2 FLU1=2.4E+05 FLU10=1.2E+04 PKI=2223 2121 PAI=006
BOU-DEV=010,015,009,022,011,008,008,005 DEV-AVG=011 NT SWF=00:000
XRAY-MAX= B3.3 @ 2344UT XRAY-MIN= A5.2 @ 0107UT XRAY-AVG= A8.3
NEUTN-MAX= +003% @ 2320UT NEUTN-MIN= -002% @ 1525UT NEUTN-AVG= +0.6%
PCA-MAX= +0.0DB @ 2355UT PCA-MIN= -0.7DB @ 1810UT PCA-AVG= -0.1DB
BOUTF-MAX=55363NT @ 1408UT BOUTF-MIN=55346NT @ 1717UT BOUTF-AVG=55356NT
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:-000NT@ 0000UT G7-AVG=+055,+000,+000
GOES6-MAX=P:+113NT@ 1811UT GOES6-MIN=N:-081NT@ 0832UT G6-AVG=+077,+014,-037
FLUXFCST=STD:090,090,095;SESC:090,090,095 BAI/PAI-FCST=010,010,010/010,010,010
KFCST=3334 4222 3334 4222 27DAY-AP=007,008 27DAY-KP=2232 2212 1011 3234
WARNINGS=*SWF
ALERTS=
!!END-DATA!!

NOTE: The Effective Sunspot Number for 18 OCT 93 was 45.0.
The Full Kp Indices for 18 OCT 93 are: 2- 3o 2- 2- 2- 3- 1+ 1+

Date: Tue, 19 Oct 1993 18:48:26 GMT
From: cs.utexas.edu!csc.ti.com!tilde.csc.ti.com!ra.csc.ti.com!fstop.csc.ti.com!
linnig@uunet.uu.net
Subject: Delta's policy on personal electronics
To: info-hams@ucsd.edu

Folks,

I just received the following guidelines on using personal electronics
in my Delta Frequent Flier Newsletter:

| The following devices may not be operated at any time while aboard a Delta
| aircraft:
|

Cellular telephones, commercial two-way transmitters (walkie talkies, etc.), amateur radio transmitters (ham radios), Citizens Band (CB) transmitters, 49-Mhz transmitters, peripheral devices for computers or games connected by a cable (printer, external mouse, etc.), AM/FM radios, portable television sets, remote control toys or devices designed to radiate Radio Frequency (RF) energy on specific frequencies.

You may use personal electronics such as personal computers and CD players on board. However, during the taxi, takeoff, initial climb, approach and landing phases, you'll be asked to switch these devices off. Once the "fasten seat belt" sign has been turned off and/or the flight crew has made the appropriate announcement you may resume use. Other items that fall under these guidelines include:

personal computer games, VHF scanner receivers, digital audiotape and cassette tape player/recorders, video recorders/playback systems or calculators.

Of course, you may operate certain personal items such as hearing aids, implanted medical devices, pagers and electric shavers without concern.

-- Mike, N5QAW

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-----+-----+
Mike Linnig, Texas Instruments Inc. | 97.43% of all statistics are made |
Phone: (214) 575-3597                | up; most of them (83.6 percent)  |
Internet: mike.linnig@dseg.ti.com    | are wrong.                    |
-----+-----+
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Date: 20 Oct 1993 11:47:04 GMT
From: swrinde!cs.utexas.edu!usc!howland.reston.ans.net!darwin.sura.net!news-feed-2.peachnet.edu!concert!quad.wfunet.wfu.edu!ac!bakalov@network.ucsd.edu
Subject: DSP filters in repeaters?
To: info-hams@ucsd.edu

Hi everyone,

I was wondering if any of the repeater manufacturers uses a DSP filter in a repeater? It seems to me that it should be a good/easy way to improve the overall quality of the output signal when the input is weak and there is a lot of static.

Also, how difficult would it be to add a filter to an existing repeater?

--

"Good Taste is Always an Asset"

Rudy Bakalov, AD4LC	tel (919) 759-4681	
Babcock Graduate School of Management	fax (919) 759-5830	
Wake Forest University, NC 27109	Internet bakalov@wfu.edu	

Date: 20 Oct 93 07:37:44 GMT
 From: ogicse!uwm.edu!cs.utexas.edu!gerald@cc.utexas.edu!emx.cc.utexas.edu!not-for-mail@network.ucsd.edu
 Subject: EL2CX
 To: info-hams@ucsd.edu

ham@wam.umd.edu (Scott Richard Rosenfel(NF3I) asks:

>>HELP ME! I need Liberia on my quest for 125 countries (and more) and
 >>I worked EL2CX several years ago. I know that post-1992 contacts use
 >>a stateside manager, but being young (and not really interested in DXCC)
 >>I didn't get the QSL manager.

The QSL manager at that time was N2AU, who rarely answers cards.
 The manager changed to WA3CGE earlier this year - this information
 is listed in the W6G0/K6HHD managers' list. I got a card for a 1989
 QSO via CGE earlier this year, so he does have pre-1993 logs.

Derek "qsl is vry sure dr om" Wills (AA5BT, G3NMX)
 Department of Astronomy, University of Texas,
 Austin TX 78712. (512-471-1392)
 oo7@astro.as.utexas.edu

Date: 20 Oct 93 15:26:48 GMT
 From: ogicse!uwm.edu!spool.mu.edu!darwin.sura.net!haven.umd.edu!cville-srv.wam.umd.edu!ham@network.ucsd.edu
 Subject: EL2CX QSL, 6 yrs ago?
 To: info-hams@ucsd.edu

HELP ME! I need Liberia on my quest for 125 countries (and more) and I worked
 EL2CX several years ago. I know that post-1992 contacts use a stateside
 manager, but being young (and not really interested in DXCC) I didn't get
 the QSL manager.

Anybody have this card who can help me?

Please? Somebody's gotta KNOW! PLEASE! PLEASE!

Thanks, 73,

Scott NF3I

--

73,

----- The
 \ / Long Original
Scott Rosenfeld Amateur Radio NF3I Burtonsville, MD | Live \$5.00
WAC-CW/SSB WAS DXCC - 109 QSLed on dipoles -----| Dipoles! Antenna!

Date: Wed, 20 Oct 1993 15:58:00 GMT
From: news.kpc.com!amd!netcomsv!netcom.com!dbledsoe@decwrl.dec.com
Subject: GAY & QST
To: info-hams@ucsd.edu

I asked for ... and received the following statement from LARC's
President, Jim Kelly, KK3K, regarding the LARC's complaint:

From: "James L. Kelly" <jimkelly@astro.ocis.temple.edu>
Subject: LARC vs ARRL

Hello Everyone,

Don (WB6LYI) has received a number of very supportive E-Mail messages from
hams in response to his posting of a general LARC informational message to
several ham newsgroups on the Internet.

The support we're receiving proves that there are many fair-minded hams
who do not support discrimination against gays. Some of them are even
willing to go to bat for us with their ARRL officials!

We have done two things to get us to this point. First, we've challenged
the discrimination directed at us from within the hobby. Second, we've
done so in a public manner. It's important to realize that people can't
help us if they don't know about us, who we are, and what problems we're
encountering. Therefore, we must continue to be forthright and public in
our determination to be treated in a fair and just manner. We can't go
wrong as long as we tell the truth and seek justice. That's the reason why
the ARRL has been silent about LARC for eight years now. They can't easily
defend an unfair and unjust policy.

I think a recap of our situation with the ARRL might be useful at this
time since some individuals have asked what we are seeking.

Basically, we are seeking an agreement on the part of the ARRL to end the

discriminatory practices directed at LARC, adoption and publication of a corporate non-discriminatory policy which includes sexual minorities, recognition on their part that their past discriminatory practices have hurt our organization, and a willingness on their part to work with our club to repair the damage done to our organization and help us grow consistent with the ARRL mission to promote amateur radio.

It is important to note that our discrimination complaint remains pending because the ARRL has not agreed to cease discriminatory practices against LARC, in fact, they deny that they have discriminated against LARC. The ARRL has said that they believe our complaint is moot since they have agreed to run an ad which LARC submitted in 1991. However, LARC has no guarantee that this decision would not be reversed and our ad once again removed from the pages of QST. The Connecticut Commission on Human Rights and Opportunities investigator has indicated, contrary to the statement of ARRL officials, that the case is not moot.

LARC stands ready, as we have since 1985, to work with the ARRL for the betterment of amateur radio. However, there is no place in amateur radio for discrimination of any kind. We are prepared to negotiate a settlement to our discrimination complaint. However, the ARRL has been silent on this issue for eight years and has thus far not indicated a willingness to negotiate, renounce past discriminatory policies, or work with LARC to promote amateur radio. Until such time as the leadership of the League recognizes their obligation to renounce their past discriminatory policies and practices once and for all, and return to spirit of their motto "Of, by and for the radio amateur" including all amateurs, gay and straight, LARC will continue to seek justice and fair treatment in the State of Connecticut and in the court of public opinion.

73,

Jim, KK3K

Jim Kelly, Amateur Radio Licensee KK3K (jimkelly@astro.ocis.temple.edu)
M.A. Candidate - Political Science - Temple University \

President - Lambda Amateur Radio Club for Sexual Minorities \

Standard Disclaimers Apply - LARC info: (215) 978 - LARC / \

***** / \

— —

Don Bledsoe, WB6LYI

dbledsoe@netcom.com

Date: 20 Oct 93 10:51:00 -0700

From: destroyer!nntp.cs.ubc.ca!mala.bc.ca!babiya@uunet.uu.net

Subject: IC-W21AT and ICW2A HT's
To: info-hams@ucsd.edu

OK folks, looking at two ICOM dual banders, the IC-W21AT, and IC-W2A.

Anyone have experience with these radios? Any gottcha's about them that I should know about? Is the extra price of the W21AT worth it for the extra features?

Comments?

Thanks,
Dale Babiy,
VE7XDB

Date: Wed, 20 Oct 1993 00:56:24 GMT
From: mulvey!rich@uunet.uu.net
Subject: JOTA
To: info-hams@ucsd.edu

Watkins, Robert Shawn (RW884@CONRAD.APPSTATE.EDU) wrote:
: Did anyone participate in the Jamboree On The Air (JOTA) this past weekend?
: My brother was able to talk to some folks in Richmond, VA from North Carolina
: on 40 meters. It was a lot of fun.

Well, I participated to the extent that I had a QRP QSO with N2FTR, who was on the bank of the Hudson River with a group of scouts. :-)

- Rich
--

Rich Mulvey Amateur Radio: N2VDS Rochester, NY
rich@mulvey.com "Ignorance should be painful."

Date: 19 Oct 93 13:49:21 GMT
From: ncrw2.ncr.com!ncrhub2!torynews!ncrlnk!ncrwic!donald!kthompso@uunet.uu.net
Subject: Modifications for Yaesu 2700?
To: info-hams@ucsd.edu

levin@bbn.com (Joel B Levin) writes:

)I have just taken possession of a Yaesu (FT?-)2700 mobile dual band
)rig. It's got some age on it, and doesn't (according to the manual)
)do cross-band repeat, though it can do full-duplex using the two
)bands.

I modified mine to do cross band repeat.
Bring the busy (led) signal out to the mike jack on the "speech"
line, assuming it does not have the voice option.
Use a transistor switch to use the signal to key the PTT line.
Run a 500k resistor from the speaker audio out to mike audio in and
the volume control at about half way will give good levels.
House the whole thing in a mike plug, no external cables.
Set up the radio for "full duplex", receiving on one band and
transmit on the other. Unplug your mike and plug in the cross band plug.
This only works from one band to the other. Cross band from either band is
possible with a little extra circuitry and explanation. Sent me your FAX number
it you would like it.

)Also, is there something that can widen the range of received
)frequencies beyond 144-150 and 440-450 Mhz?

Only the 2-meter can be "opened" and without retuning the VCO and PLL only
go to 153 Mhz. :-(

Ken.

--
Ken Thompson N0ITL
Disk Array Hardware Development
Peripheral Products MPD-Wichita
NCR Corp. an AT&T company
3718 N. Rock Road Wichita, Ks 67226
(316) 636-8783
Ken.Thompson@wichitaks.ncr.com

Date: 20 Oct 93 17:00:23 GMT
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!sdd.hp.com!hpscit.sc.hp.com!
rkarlqu@network.ucsd.edu
Subject: More on Cross-Field Antenna (CFA)
To: info-hams@ucsd.edu

In article <gene.751071601@eagle.csl.uiuc.edu>,
Gene Gardner <gene@eagle.csl.uiuc.edu> wrote:

>
>
> I'm not sure if a CFA reference in EW & WW (Sept 93) mentioning
> 621.3 In 71c 333.2. To continue the controversy, a letter-to-the

>editor writer (EW & WW Oct '91 says that a conventional station using

The letter to the editor in EW/WW Sept 93 reveals where these guys are coming from. The writer actually says Maxwell's equations are not valid. He doesn't go into any detail as to *which* equation is not valid and what evidence he has to support this wild assertion.

BTW, your comment about matching losses is right on. The efficiency of a short fat monopole (.016 wavelength) is indeed fairly high, if you measure only the real power flowing to the antenna proper from the matching network, rather than volt-amperes (and neglect ground losses). Unfortunately, transmitter output power is essentially constrained to a maximum volt-amperes rating, not real watts. It's the same argument as with electrostatic loudspeakers. The speaker itself is efficient, but the whole system is very inefficient.

Rick N6RK
rkarlqu@scd.hp.com

Date: 20 Oct 93 12:06:02 GMT
From: ogicse!emory!kd4nc!ke4zv!gary@network.ucsd.edu
Subject: Transmission Line Losses
To: info-hams@ucsd.edu

In article <931019100117_7@ccm.hf.intel.com> Cecil_A_Moore@ccm.hf.INTeL.COM (Cecil A Moore) writes:

>>What exactly is "matched line loss"? I saw it in the ARRL Antenna Handbook
>>and never did quite get a grip on it. 73!

>>Jeff Jones AB6MB

>

>Jeff, "matched line loss" is the "attenuation in decibels per 100-foot
>lengths of many popular transmission lines" from the graph in the
>Transmission Lines chapter of the ARRL Handbook. It is the specified
>loss for perfectly matched transmission lines, e.g. 50 ohm characteristic
>impedence working into a 50 ohm load. Losses will never be below that
>minimum but can be much higher if the SWR is high or IF YOUR PARTICULAR
>CABLE DOES NOT MEET THE CABLE SPECIFICATIONS.

Actually, the matched line loss is *what you measure the loss to be* for the particular cable you are using. The tables are just a general guide. Anybody who takes the tables literally probably takes the antenna gain figures in ads in the magazines literally too. :-)

Gary

--

Gary Coffman KE4ZV

|"If 10% is good enough | gatech!wa4mei!ke4zv!gary

Destructive Testing Systems | for Jesus, it's good | uunet!rsiatl!ke4zv!gary
534 Shannon Way | enough for Uncle Sam." | emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244 | -Ray Stevens |

Date: Wed, 20 Oct 1993 00:36:08 GMT
From: pacbell.com!amdahl!netcomsv!netcom.com!wa2ise@ames.arpa
Subject: Transmission Line Losses
To: info-hams@ucsd.edu

In article <931019100117_7@ccm.hf.intel.com> Cecil_A_Moore@ccm.hf.INTEL.COM (Cecil A Moore) writes:

>Jeff, "matched line loss" is the "attenuation in decibels per 100-foot
>lengths of many popular transmission lines" from the graph in the
>Transmission Lines chapter of the ARRL Handbook. It is the specified
>loss for perfectly matched transmission lines, e.g. 50 ohm characteristic
>impedence working into a 50 ohm load. Losses will never be below that
>minimum but can be much higher if the SWR is high or IF YOUR PARTICULAR
>CABLE DOES NOT MEET THE CABLE SPECIFICATIONS.

>

>I just bought 100 ft of RG-58 (new/surplus/cheap). Since I am a born skeptic,
>unlike some people I know who have blind trust in abstract equations, before
>I used the "new" coax, I measured the matched line loss on 17 meters. It is
>5 db, considerably different from the RG-58 spec of 2 db. That cable
>obviously doesn't care what a page in the ARRL Handbook says it is
>supposed to be.

Some time ago I got a 50 foot RG58 cable with HP logos on the BNC connectors from a surplus shop. I have a Bird wattmeter, and using a short RG58 cable, a Tektronix 50 ohm dummy load, and a HTX202 HT, measured the power output. Then tried the just acquired 50 foot cable, Bird wattmeter and dummy load at far end. Less power, but consistent with the attenuation spec for good RG58. Had intended just to test for opens and shorts, but realized my test also measured the condition of the quality of the coax as well. Decided it was a good cable.

When you replace a run of RG58 with RG8 on your 2M antenna, expect that the measured SWR will read worse. It was always worse, just that the cable attenuation made it *look* better (when measured near the rig in the shack).

Date: 20 Oct 93 11:59:53 GMT
From: ogicse!emory!kd4nc!ke4zv!gary@network.ucsd.edu
Subject: Where to buy O-Scopes cheaply
To: info-hams@ucsd.edu

In article <LINNIG.93Oct18145947@m2000.dseg.ti.com> linnig@m2000.dseg.ti.com (Mike Linnig) writes:

>I've been doing some electronics hacking and I have come to realize I really
>need a low end oscilloscope. A friend of mine lent me his 20Mhz Heathkit
>oscilloscope and that seemed just fine.

>

>Other than picking one up at a swap meet, is there any company out there that
>sells inexpensive (\$200-\$500) oscilloscopes and guarantees them in some
>fashion? I don't mind used equipment, I just don't want to buy a lemon.

>

>Tucker Electronics (Dallas) offers a 20Mhz Goldstar Oscilloscope, Model
>OS-9020A, for \$379 and a Protek 20Mhz Oscilloscope, Model P-3502 for \$389.
>Both of these are dual trace scopes.

I bought one of the Ramsey scopes. It's a private label Korean make, probably the same as Tucker sells under the Goldstar label. It's good to 35 MHz instead of 20 MHz, and is also dual trace. Ramsey threw in a set of probes and a digital voltmeter all for \$379 at Dayton. It works Ok, not in the league with my Tek 2445B, but good enough for a lot of jobs. I'm using it in my mechanical shop to monitor some sensors. Note that the trace does get dim at the highest sweep speed, but that's to be expected in a low end scope. I'd have to put it ahead of a Tek 922.

Gary

--

Gary Coffman KE4ZV	"If 10% is good enough	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	for Jesus, it's good	uunet!rsiatl!ke4zv!gary
534 Shannon Way	enough for Uncle Sam."	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Ray Stevens	

Date: 20 Oct 93 18:29:33 GMT
From: mnemosyne.cs.du.edu!nyx!dsharp@uunet.uu.net
To: info-hams@ucsd.edu

References <CE96Iq.LqI@feenix.metronet.com>, <21870048@hplvec.LVLD.HP.COM>,
<CF66ws.2nC@cbnewst.cb.att.com>
Subject : Re: When is Dayton??

kt2q@cbnewst.cb.att.com (richard.e.steailey) writes:

>I always thought the Hamvention was supposed to be on the 4th weekend of
>April, so I checked in the '93 Hamvention brochure. On page 90 it
>has a listing of hotels and says the dates of the 94 Hamvention
>are April 22-24, 1994.

> =====

It was announced at the 1993 Hamvention that the dates listed with the hotels is in error. The correct dates are April 29 - May 1, 1994. That's listed in another part of the 93 Hamvention program.

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Dave Sharp, NU8H                | "Eagles may soar, but weasels
Dayton, Ohio                    | don't get sucked into jet engines"
Email: dsharp@nyx.cs.du.edu      | -Unknown
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Date: 20 Oct 93 01:35:00 GMT
From: munnari.oz.au!metro!news.ci.com.au!eram!dave@uunet.uu.net
To: info-hams@ucsd.edu

References <35d_9310101636@yyz.mbsun.mlb.org>, <CEpGv9.Mp2@news.Hawaii.Edu>,
<CF3z1L.Mx2@ucdavis.edu>etro
Subject : Re: Newsline #842

In article <CF3z1L.Mx2@ucdavis.edu>,
ez006683@othello.ucdavis.edu (Daniel D. Todd) writes:

| Does this include sdcanner modification publishers who publish cellular
| mods? an activity which is illegal in ALL states! Or does this only
| apply to actions which are illegal AND you dislike?

Not to mention the adverts for cable-TV decoders, radar "calibrators",
CB modifications, and the like...

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Dave Horsfall (VK2KFU)          VK2KFU @ VK2RWI.NSW.AUS.OC      PGP 2.3
dave@esi.COM.AU                 ...munari!esi.COM.AU!dave      available
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End of Info-Hams Digest V93 #1247
